

ROYAL ASTRONOMICAL SOCIETY.

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CAPT. W. H. SMYTH, R.N., Vice-President, in the Chair.

Thos. C. Janson, Esq., F.L.S., Stamford Hill, Middlesex, was balloted for, and duly elected a Fellow of the Society.

FLORA.

Observations.

MAKERSTOUN. Equatoreal. (Sir T. M. Brisbane & Mr. Brown.)

Date. 1847.	Makerstoun						N.P.D.			Star of Comparison.		No. of Obs.	Hind's Ephemeris, — Obs.	
	M.T.			R.A.									R.A.	N.P.D.
	h	m	s	h	m	s	°	'	"					
Dec. 28	7	52	55	4	12	50.67	74	29	53.9	B.A.C.	1328	5	-0.64	-4.2
	30	8	24 34		11	53.80	74	20	24.4	—	1366	9	0.66	6.3
		8	40 25			53.21			19.5	—	1380	6	0.35	4.5
1848. Jan.	5	10	23 47		10	0.35	73	49	37.7	—	1329	15	0.46	-1.7
	7	8	40 13		9	42.55		39	16.9	—	1350	2	-0.29	+0.8
	13	7	51 46		9	43.75				—	1356	10	+0.02	
		7	52 50				73	5	58.1	—	1356	6		-4.1
	15	7	17 6		10	2.48	72	54	31.8	—	1346	4	-0.05	7.1
		7	41 28			2.67				—	1356	14	0.03	
		7	41 35						22.6	—	1356	8		3.9
	18	7	20 44		10	47.83		36	43.4	—	1346	8	0.11	5.3
		8	6 31			48.41			31.9	—	1365	7	0.09	5.2
	19	7	28 47					30	40.9	—	1365	5		4.7
		7	35 44		11	7.51				—	1365	9	0.09	
	20	7	29 44		11	29.16				—	1365	10	0.12	
		7	45 5					24	34.6	—	1365	4		3.9
	21	7	31 33		11	53.03	72	18	33.0	—	1365	5	-0.14	2.5
	25	6	51 15		13	47.75	71	54	16.3	Rümker	1162	15	+0.25	4.5
	26	7	22 39		14	22.52		47	57.7	—	1162	12	0.33	4.0
	31	7	9 29		17	41.65		16	56.7	B.A.C.	1361	8	0.14	0.0
		7	34 58			42.28			52.1	—	1376	11	0.30	2.0
Feb.	2	7	52 21	4	19	15.70	71	4	20.9	—	1376	15	+ (0.21)	-(3.2)

The observations are corrected for refraction and parallax.

The observations were made by Mr. John Welsh, with a spider's-line micrometer. The apparent place of the compared star has been computed from the catalogue referred to.

DURHAM.

(Prof. Chevallier & Mr. R. A. Thompson.)

	G.M.T.			R.A.			N.P.D.	No. of Comp.	Star.
1847.	h	m	s	h	m	s	° ' "		
Oct. 27	10	37	35	5	3	52.73		5	<i>a</i>
28	10	39	26		3	42.37		5	<i>a</i>
Nov. 1	10	1	44	2	33	54	76 9 19.4	2	B.Z. iv. 1312
2	11	40	59	5	2	8.63	10 7.9	5	— —
9	9	58	47	4	58	19.47	13 21.5	8	— — N.P.D. doubtful.
16	11	16	15	52	41	13	13 15.3	4	B.A.C. 1500
19	13	2	23	49	46	28	11 53.9		Meridian.
	12	11	0		48	56	53.4	7	B.A.C. 1500
Dec. 3	12	5	2	34	41	25		6	— —
	12	34	3				75 53 31.3	2	— — doubtful.
11	10	33	48	26	8	13	75 34 13.4	8	— 1409
1848.									
Jan. 5	10	23	49	10	0	41	73 49 42.1	7	— 1329
11	8	21	5	9	34	29	17 16.5	2	— 1350
13	10	37	48	9	44	63		7	— 1356
	10	37	48		44	62		7	— 1346
	10	21	18				73 5 25.2	7	— 1356
26	8	32	14	14	23	93		9	H.C. 8125
	8	26	20				71 47 39.2	8	— —
28	7	48	57	15	37	11	35 25.3	7	B.A.C. 1361
	10	57	10		42	04	34 38.8	1	— —
31	6	51	52	17	40	59	17 5.4	8	— —
	9	26	14		45	53	16 26.8	1	— —
	10	27	49		47	23	16 11.4	4	— —
Feb. 1	9	57	16	5	18	31.64	71 10 10.0	10	♄ Tauri good.

The observations are chiefly made with the Fraunhofer equatorial: they are corrected for parallax, but not for refraction.

Assumed apparent places of stars compared,—

	Mag.		R.A.			N.P.D.
<i>a</i>	9	Oct. 27	h	m	s	° ' "
			5	5	58.80	76 4 (approx ^t .)
Bessel Zones iv. 1312	7		4	58	7.74	76 7 15.0

Deduced from 2 comparisons with B.A.C. 1500. The mean places of the other stars are taken from the catalogues cited.

HAMBURG. Merid. Circle & Transit. (MM. C. & G. Rümker.)

	Hamburg M. T.			R.A.	Transit.	Declin.
1848.	h	m	s	° ' "	"	° ' "
Jan. 3	9	20	4.4	62 37 15.7	21.7	+ 15 59 26.0
4		15	53.3	33 27.0	31.5	16 4 35.8
5		11	44.7	30 16.2	17.2	9 48.3
6		7	38.0	27 35.0	...	15 9.6
7	9	3	34.1	25 33.7	34.3	20 29.3
8	8	59	32.8	24 12.9	11.3	25 50.9
12		43	50.1	24 27.9	...	16 48 10.8
16	8	28	44.0	62 33 52.6	57.0	+ 17 11 29.2

The transit observations are by M. G. Rümker.

Elliptic Elements by Dr. Brunnow, Director of the Observatory at Bilk, near Düsseldorf.

Epoch 1848, Jan. 0, Berlin Mean Time.

M.....	35° 24' 13".86
π	33 3 5.76
Ω	110 15 2.33
i	5 53 34.24
ψ	8 58 43.86
μ	1085.5122

Log a 0.3429133

Sid. Revol. 1193.901 days.

An Ephemeris by Dr. Brunnow, for January, came too late for use.

IRIS.

DURHAM.

(Prof. Chevallier & Mr. R. A. Thompson.)

	G.M.T.	R.A.	N.P.D.	No. of Obs.	Star.
1847.	^h ^m ^s	^h ^m ^s	[°] ['] ["]		
Nov. 16	6 48 57	20 44 46.18	102 29 59.6	3	B.A.C. 7296
17	7 43 50	46 27.54	24 50.7	2	— —
Dec. 8	6 8 22	21 23 19.31		3	B.A.C. 7435
8	6 26 31		100 10 25.4	2	— —

The observations are corrected for refraction, but not for parallax.

Extract of a Letter from Mr. Cooper.

“ Mr. Graham, my first assistant at Markree Observatory, compared *Iris*, on the 24th of January last, with a star of 9.10 mag., not to be found in any catalogue we possess. The apparent place of the star on Jan. 23 was found to be

R.A.	^h ^m ^s	N.P.D.	[°] ['] ["]
22	57 16.08	92	27 11.1

by 5 micrometrical comparisons with a star in *Bessel's Zones* and in the *Hist. Cél.* As it seems to be variable, the star is worth attention, and its place may be of use to some planet-hunter.”

URANUS.

HAMBURG.

Meridian Circle.

(M. Rümker.)

	Hamburg M.T.	R.A.	Dec.
1848.	^h ^m ^s	[°] ['] ["]	[°] ['] ["]
Jan. 4	6 0 3.3	13 27 54.4	+ 5 4 22.0
5	5 56 10.4	28 27.4	4 35.3
6	5 52 16.2	29 6.3	4 54.6
7	5 48 23.0	13 29 47.1	+ 5 5 15.0